Lesson Summary

In this lesson, you've learned the fundamentals of **deep learning**, including:

- The differences between classical machine learning and deep learning
- The benefits and applications of Deep Learning
- How to train your first neural network model

Next, you learned about some of the most important **specialized cases of model training**, including:

- *Similarity learning* and the basic features of a recommendation engine
- *Text classification* and the fundamentals of processing text in machine learning
- *Feature learning*, an essential task in feature engineering
- Anomaly detection
- Time-series forecasting.

Along the way, you got practice with several hands-on labs, using the Designer in Azure Machine Learning Studio to train a simple neural network, a recommendation engine, a text classifier, and a time-series forecasting model.

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